



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
ADVISORY COMMITTEE ON NUCLEAR WASTE AND MATERIALS  
WASHINGTON, D.C. 20555-0001**

**January 31, 2008**

**AGENDA  
186<sup>th</sup> ACNW&M MEETING  
FEBRUARY 12-14, 2008**

**TUESDAY, FEBRUARY 12, 2008, CONFERENCE ROOM T-2B3, TWO WHITE FLINT  
NORTH, ROCKVILLE, MARYLAND**

- 1) 10:00 – 10:05 A.M. Opening Remarks by the ACNW&M Chairman (Open) (MTR/AFD)  
The Chairman will make opening remarks regarding the conduct of today's sessions.
  
- 2) 10:05 – 12:00 P.M. Discussion of ACNW&M Letter Reports (Open) (All)  
Discussion of proposed and potential ACNW&M letter reports on:  
2.1) Post-Closure Degradation of Emplacement Drifts and Its Impact on Engineered Barrier System Performance at the Proposed Yucca Mountain High-Level Radioactive Waste Repository (WJH/NMC)
  
- 12:00 – 1:00 P.M. \*\*\*LUNCH\*\*\***
  
- 3) 1:00 – 1:30 P.M. International Commission on Radiological Protection (ICRP) Recommendations – Final Report 103 (Open) (MTR/NMC)  
Representatives of the NRC staff will discuss with the Committee their views regarding this ICRP Report.
  
- 1:30 – 1:45 P.M. \*\*\*BREAK\*\*\***
  
- 4) 1:45 – 3:00 P.M. Corrosion of Waste Package and Spent Fuel Dissolution in a Repository Environment (Open) (RFW/CLB)  
A representative from the NRC Office of Nuclear Material Safety and Safeguards, Division of High-Level Waste and Repository Safety (DHLWRS), will brief the Committee on waste package corrosion and spent fuel dissolution under potential repository conditions.
  
- 5) 3:00 – 5:30 P.M. Discussion of ACNW&M Letter Reports (Open) (All)  
Continued discussion of proposed and potential ACNW&M letter report listed under Item 2 and:  
5.1) NRC 2006 Commercial Low Level Waste Strategic Planning Initiative (MTR/MPL)  
5.2) Corrosion of Waste Package and Spent Fuel Dissolution in a Repository Environment (RFW/CLB)
  
- 5:30 P.M. Adjourn**

**WEDNESDAY, FEBRUARY 13, 2008, CONFERENCE ROOM T-2B3, TWO WHITE FLINT  
NORTH, ROCKVILLE, MARYLAND**

- 6) 8:30 – 8:35 A.M. Opening Remarks by the ACNW&M Chairman (Open)  
(MTR/NMC)  
The Chairman will make opening remarks regarding the conduct of today's sessions.
- 7) 8:35 – 9:30 A.M. ACNW&M Meeting with NRC Commissioner Peter B. Lyons  
(Open) (MTR/NMC)  
Commissioner Lyons will address the Committee on current topics and issues of common interest.
- 8) 9:30 – 12:00 P.M. Discussion of ACNW&M Letter Reports (Open) (All)  
Continued discussion of proposed and potential ACNW&M letter reports listed under Item 5.
- 12:00 – 1:00 P.M. \*\*\*LUNCH\*\*\***

**ACNW&M WORKING GROUP MEETING ON MANAGING LOW ACTIVITY RADIOACTIVE  
WASTE (LAW) (Open)**

**Purpose**

The purpose of this Working Group Meeting is to understand how LAW is being managed in the United States, and determine if there are ways to improve its management. Also to be addressed is the extent to which Resource Conservation and Recovery Act (RCRA) disposal sites can/could factor into the management of LAW.

- 9) 1:00 – 1:15 P.M. Greetings and Introductions (WJH/MPL)  
Dr. Michael Ryan, the cognizant ACNW&M Member for this meeting topic, will provide an overview of the expected goals for the Working Group Meeting, the planned technical sessions, and introduce the invited speakers.

**SESSION I: What is LAW?**

- 10) 1:15 – 1:30 P.M. LAW/TENORM Overview  
Dr. Ryan, ACNW&M Chair
- 11) 1:30 – 2:00 P.M. Alternative Disposal Options for Low Activity Waste: An NRC  
Regulatory Perspective  
James Kennedy, NRC Office of Federal and State Materials and Environmental Management Programs (FSME)
- 12) 2:00 – 2:30 P.M. LAW Regulation: A National Perspective  
Ruth McBurney, Conference of Radiation Control Program Directors
- 2:30 – 2:45 P.M. \*\*\*BREAK\*\*\***

**SESSION II: Risk-Based Approaches to the Regulation of LAW**

- 13) 2:45 – 3:15 P.M. Risk-Based Classification System for Radioactive and Chemically Hazardous Wastes – Recommendations from the National Council on Radiation Protection (NCRP), Report No. 139  
Allen Croff, ACNW&M
- 14) 3:15 – 3:45 P.M. Risk-Informed Analytical Approaches to Waste Classification: NRC Staff Review of U.S. Department of Energy (DOE) Waste Incidental to Reprocessing (WIR) Determination  
David Esh, FSME
- 15) 3:45 – 4:15 P.M. Enabling Risk-Informed Approaches to Management of LAW: Nuclear Industry Perspective  
Ralph Anderson, Nuclear Energy Institute
- 16) 4:15 – 4:45 P.M. A Risk-Informed Approach to Managing LAW: An International Perspective  
John Greeves and Jim Lieberman, Talisman International, LLC

**5:00 P.M. Adjourn**

**THURSDAY, FEBRUARY 14, 2008, CONFERENCE ROOM T-2B3, TWO WHITE FLINT NORTH, ROCKVILLE, MARYLAND**

**ACNW&M WORKING GROUP MEETING ON MANAGING LOW ACTIVITY RADIOACTIVE WASTE (LAW) - Continuation (Open)**

**SESSION III: Alternative Disposal Methods for LAW – Case Studies**

- 17) 8:30 – 9:00 A.M. Disposal of Mixed Radioactive Wastes: U.S. Environmental Protection Agency (EPA) 2003 Advanced Notice of Proposed Rulemaking: An Update  
Dan Schultheisz, EPA
- 18) 9:00 – 9:30 A.M. Tennessee Municipal Landfill Exemptions for LAW: A Historical Perspective  
Mike Mobley, Southeast LLW Compact Commission
- 19) 9:30 – 10:00 A.M. Grandview, Idaho, Disposal Facility  
Steve Romano, American Ecology
- 20) 10:00 – 10:30 A.M. Clive, Utah, Disposal Facility  
Tye Rodgers and Bill House, Energy Solutions

**10:30 – 10:45 A.M. \*\*\*BREAK\*\*\***

21) 10:45 – 11:30 A.M. Deer Trail (Colorado) and Buttonwillow (California) Facilities  
Philip Retallick, Clean Harbors

22) 11:30 – 12:30 P.M. Waste Control Specialists (WCS) Anderson Co. Site, Texas, Disposal Facility  
Bill Dornsife, WCS

**12:30 – 1:30 P.M. \*\*\*LUNCH\*\*\***

#### **SESSION IV: Working Group Meeting Impressions and Recommendations**

23) 1:30 – 2:30 P.M. Stakeholder Comments, Views and Perspectives  
As requested.

24) 2:30 – 3:30 P.M. Roundtable Discussion  
Dr. Michael Ryan, ACNW&M (moderator)

25) 3:30 – 3:45 P.M. Closing Remarks  
Dr. Michael Ryan, ACNW&M

**3:45 – 4:00 P.M. \*\*\*BREAK\*\*\***

26) 4:00 – 4:30 P.M. ICRP's Draft Report on Environmental Protection: The Concept and Use of Reference Animals and Plants (Open) (MTR/NMC)  
Representatives of the NRC staff will discuss with the Committee preliminary views regarding the new ICRP Draft Report on Environmental Protection.

27) 4:30 – 5:00 P.M. Miscellaneous (Open) (All)  
The Committee will discuss matters related to the conduct of ACNW&M activities and specific issues that were not completed during previous meetings. Discussions may include content of future letters and scope of future Committee Meetings.

**5:00 P.M. Adjourn**

#### **NOTES:**

- Presentation time should not exceed 50 percent of the total time allocated for a given item. The remaining 50 percent of the time is reserved for discussion.
- Thirty five (35) hard copies and one (1) electronic copy of the presentation materials should be provided to the ACNW&M in advance of the briefing.
- During the days of the meeting, phone number 301-415-7360 should be used in order to access anyone in the ACNW&M Office.